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SOFER & HAROUN LLP.

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EXAMINER

NGUYEN, KHAI N

ART UNIT

PAPER NUMBER

2614

MAIL DATE

DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/813,974	Applicant(s) HUEY, CHRISTOPHER A.	
	Examiner KHAI N. NGUYEN	Art Unit 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 June 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on June 16, 2010 has been entered. Claims 1, 21, and 39 have been amended. No claims have been canceled. No claims have been added. Claims 1-42 are still pending in this application, with claims 1, 21, and 39 being independent.
2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Objections

3. The amended claim 39 is objected to because of the following informalities: "re-routing to second directory assistance call center - - -" should be changed to "re-routing to a second directory assistance call center - - -". Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. Claims 1 and 39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The amended independent claims 1 and 39 recite "- - - method comprising steps of: - - -; identifying a second call center at a differ geographic location - - -; and re-

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routing the call to **a second directory assistance call center** if that - -". Therefore, it is unclear whether "a second call center" is the same as "a second directory assistance call center" or not. Appropriate correction is required.

Claim Rejections - 35 USC § 103

5. Claims 1-5, 7-13, 16-23, 25-31 and 34-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaffer et al. (U.S. Patent Number 6,385,312 hereinafter "Schaffer") in view of Lautenschlager et al. (U.S. Patent Number 6,067,350 hereinafter "Lautenschlager").

Note: In this office action "a second call center" is interpreted as "a second directory assistance call center" or "a second service location".

Regarding claims 1 and 39, Schaffer teaches a method for routing a directory assistance call (Fig. 2 Routing Network) from a wireless communications device to a directory assistance service having a plurality of geographical separate call centers (Fig. 2, Abstract, column 11 lines 8-21, i.e., caller location based routing for use with mobile phone "wireless", and identifies one or more service locations corresponding to the location of the caller's telephone), comprising:

receiving the call (Fig. 27, 110 CALLING, col. 38 lines 25-26, Figs. 28A-28B), having an associated communication device identifier unique to said caller's device (Fig. 28A, step 110 Calling, 111 Switch, step 112 Call Decoding Hardware, step 114 Information Packet: Calling Phone Number and Dialed Number), at a first directory

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assistance call center located at one geographic location (Fig. 27, Fig. 30, col. 38 lines 49-51), the call being routed to the first directory assistance call center based on said communications device identifier (Fig. 2, Fig. 27, 111 Switch, 150a Service Location #1, 1130 Interactive Voice Response Unit (IVRU), col. 38 lines 49-67 through col. 39 lines 1-4, i.e. call being routed to call center based on Automatic Number Identification (ANI)), said first directory assistance call center being designated to handle all calls having said communications device identifier regardless of the geographic location of said wireless communication device at time of said call (Fig. 1c, Fig. 2, col. 15, line 60 through col. 16, line 8, i.e., the "1-800" number call center being designated to handle all calls having said communications device identifier regardless of the location of said wireless communication device wherein the "1-800" number call center reads on "the first call center handling all calls), the directory assistance call center comprising at least one operator capable of communicating with the caller by voice (Fig. 30, 1142 PBX/ACD CTI Gateway, 1146 Operator, column 39 lines 21-27);

determining the actual geographic vicinity of the wireless communications device (column 11 lines 8-11, i.e., caller location based routing for use with mobile phone "wireless") at said first directory assistance call center at the time of said call (Fig. 27, 1136, 1138, col. 39 lines 33-40, i.e., Bellcore Vertical & Horizontal Coordinate file and Local Exchange Routing Guide (LERG), and Figs. 39A-B, state 1452, col. 51 lines 27-30. i.e., latitude and longitude); and

routing the call to a second call center if that second call center is closer to the geographic vicinity of the wireless communications device (column 11 lines 8-11, i.e.,

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caller location based routing for use with mobile phone “wireless”) than the first call center (Fig. 27, Service Location #1 150a, Service Location #2 150b, col. 39 lines 1-4, and col. 52 lines 2-6, wherein a servicing location telephone (e.g., at a service location 150a) reads on “a second call center”).

Shaffer clearly disclose an apparatus that is **a known device** to provide the first call center handling all calls regardless of the location of the wireless communication device and re-routing the call to a second call center (Fig. 1c, Fig. 2, col. 15, line 60 through col. 16, line 8, and Fig. 27, Service Location #1 150a, Service Location #2 150b, col. 39 lines 1-4, and col. 52 lines 2-6), and routing the call closer to the geographic vicinity of the wireless communications device and to use the instantaneous location of a caller’s mobile telephone as an input to rout the call to the call center corresponding to the location of the caller’s telephone (See Shaffer – Abstract, Fig. 2, column 8 lines 49-65, and column 41, lines 1-64) which the claimed invention can be seen as an **improvement** in that the call is initially routed to a first call center based on the communications device identifier, the first directory assistance call center being designated to handle all calls having said communications device identifier regardless of the geographic location of the wireless communication device at the time of said call, and identifying a second call center at a differ geographic location closer to said vicinity of the wireless communications device at said first directory assistance call center at the time of said call; and re-routing the call to a second directory assistance call center if that second call center is closer. Lautenschlager contains **known technique** that the

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call is initially routed to a first call center based on the communications device identifier (See Lautenschlager – Fig. 1, Initiate Call; Transmit Subscriber ID As Part of Calling Signal), the first directory assistance call center being designated to handle all calls having said communications device identifier regardless of the geographic location of the wireless communication device at the time of said call (See Lautenschlager – Fig. 1, Use Subscriber ID to Retrieve Subscriber Location from ID/Location Database), identifying a second call center at a differ geographic location closer to said vicinity of the wireless communications device at said first directory assistance call center at the time of said call (See Lautenschlager – Fig. 1, Select Responsible Call Center Nearest to Subscriber Location), and re-routing the call to a second directory assistance call center if that second call center is closer (See Lautenschlager – Fig. 1, Route Subscriber's Call to Responsible Call Center, Abstract, column 2 lines 27-34, and lines 59-66), and Lautenschlager's known technique would have been recognized by one skill in the art as applicable to the known device of Shaffer and the results would have been predictable and resulted in the apparatus to initially routed the call to a first call center based on the communications device identifier, the first directory assistance call center being designated to handle all calls having said communications device identifier regardless of the geographic location of the wireless communication device at the time of said call, and identifying a second call center at a differ geographic location closer to said vicinity of the wireless communications device at said first directory assistance call center at the time of said call; and re-routing the call to a second

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directory assistance call center if that second call center is closer which results in an improved apparatus.

And thus adding the features as described above is to apply a known technique to a known device ready for improvement to yield predictable results (see KSR – MPEP 2143). Therefore, the claimed subject matter would have been obvious to a person having ordinary skill in the art at the time the invention was made.

Regarding claims 2 and 22, Schaffer teaches a method and a system wherein the communications device identifier is automatic number identification (ANI) (Fig. 27, 110, 111, col. 38 lines 28-29, and lines 49-51, Fig. 30, 110, 111, col. 40 – lines 66-67 through col. 41 lines 1-3, i.e. Automatic Number Identification (ANI)).

Regarding claim 3, Schaffer teaches a method further comprising receiving a signaling stream associated with the call, the signaling stream including at least a caller location identifier or an initiating switch locator for respectively identifying the geographic vicinity of the caller or a switch through which the call is initially being routed (col. 10 lines 45-49, i.e. a caller spatial coordinate corresponding to an instantaneous location of a caller telephone).

Regarding claim 4, Schaffer teaches a method wherein the geographic vicinity of the communications device is determined by decoding the caller location identifier or the

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initiating switch locator (col. 51 lines 27-30, i.e. looks up latitude and longitude from caller telephone number; and col. 52 lines 49-65).

Regarding claims 5 and 23, Schaffer teaches a method and a system wherein the caller location identifier comprises a caller geodetic location information parameter (CGLIP) (col. 29 lines 1-3, i.e. latitude and longitude geocoded, and col. 29 lines 28-29).

Regarding claims 7, 9, 25, and 27, Schaffer teaches a method and a system wherein the initiating switch locator comprises a jurisdiction information parameter (JIP) and a call reference parameter (CRP) (Fig. 27, 111 Switch, col. 38 lines 63-67, i.e. communication protocols – ISDN and ISUP).

Regarding claims 8, 10, 26, and 28, Schaffer teaches a method and a system wherein the decoding comprises:

converting the JIP or CRP to a switch ID (Fig. 27, 111Switch, col. 39 lines 38-40, i.e. uses Local Exchange Routing Guide (LERG) for switch ID);

converting the switch ID to geographical coordinates (col. 39 lines 33-34, i.e. vertical-horizontal coordinate file); and

converting the geographical coordinates to latitude and longitude (Fig. 5, col. 23 lines 16-20, i.e., calculating site latitude and longitude).

Regarding claims 11 and 29, Schaffer teaches a method and a system wherein the initiating switch locator comprises a common language location identification (CLLI) code (col. 39 lines 33-40, i.e., CLLI codes are associated with V&H coordinate to calculate distance between two network locations, and also Local Exchange Routing Guide (LERG) stored CLLI).

Regarding claims 12 and 30, Schaffer teaches a method and a system wherein the decoding comprises:

converting the CLLI code to geographical coordinates (col. 39 lines 33-34, i.e., vertical-horizontal coordinate file associated with CLLI codes, and col. 39 lines 38-40, i.e., also Local Exchange Routing Guide (LERG) stored CLLI); and

converting the geographical coordinates to latitude and longitude (Fig. 5, col. 23 lines 16-20, i.e., calculating site latitude and longitude).

Regarding claims 13 and 31, Schaffer teaches a method and a system wherein the signaling stream is formatted in accordance with an SS7 protocol (col. 16 lines 30-32, i.e., SS7 TCAP message).

Regarding claims 16-18, and 34-36, Schaffer teaches a method and a system wherein the second call center is within the same state as that of the communications device (Fig. 35, 1220, col. 52 lines 2-6, i.e. "within service area"); and the second call center is within the same LATA as that of the communications device (Fig. 27, 111,

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150a, col. 38 lines 25-27, and col. 39 lines 1-4, i.e. LEC and service location); and the second call center is within the same time zone as that of the communications device (col. 40 lines 10-20).

Regarding claims 19, and 37, Schaffer teaches a method and a system wherein there is a plurality of call centers closer to the geographic vicinity of the communications device than the first call center, and the second call center is the one call center out of the plurality of call centers that is closest to the geographic vicinity of the communications device (Fig. 22, 109 Service Locations File, col. 40 lines 9-10, lines 14-16, and lines 19-20).

Regarding claims 20, and 38, Schaffer teaches a method and a system further comprising routing the call to a third call center based on the expected wait time at the second call center (Fig. 1E, 152, 154 and 144 – col. 19 lines 6-11, i.e. exception handling when location is “busy”).

Regarding claim 21, Schaffer teaches a system (Fig. 2 Routing Network, Fig. 27, Fig. 30) for routing a call from a wireless communications device (Fig. 27, 110, Fig. 30, 110) to a directory assistance service having a plurality of geographical separate call centers (Fig. 2, Abstract, column 11 lines 8-21, i.e., caller location based routing for use with mobile phone “wireless”, and identifies one or more service locations corresponding to the location of the caller’s telephone), said comprising:

a plurality of call centers each covering a difference geographic area (Fig. 2, 160 Location A, 162 Location B, 164 Location C, Fig. 27, Service Location #1 150a, Service Location #2 150b, col. 39 lines 1-4, and col. 52 lines 2-6);

a switch (Fig. 27, 111, Fig. 30, 111) for routing a call, said call having an associated communication device identifier unique to said caller's device (Fig. 28A, step 110 Calling, 111 Switch, step 112 Call Decoding Hardware, step 114 Information Packet: Calling Phone Number and Dialed Number), to a first directory assistance call center covering one geographic area (Fig. 27, 1000, 1130 Network Terminating Point Interface Box to Call Center 1000, Fig. 30, 1000, 1130) based on said communication device identifier (Fig. 27, col. 38 lines 49-51, i.e., ANI is "communication device identifier" and call being routed to call center based on Automatic Number Identification, Fig. 28, col.40 lines 63-67 through col. 41 lines 1-3), said first directory assistance call center being designated to handle all calls having said communications device identifier regardless of the geographic location of said wireless communication device at the time of said call (Fig. 1c, Fig. 2, col. 15, line 60 through col. 16, line 8, i.e., the "1-800" number call center being designated to handle all calls having said communications device identifier regardless of the location of said wireless communication device);

an interface for receiving at said first directory assistance call center a signaling stream associated with the call (Fig. 27, 1130, Fig. 30, 1130 Network Terminating Point Interface), the signaling stream including at least said communications device identifier and a caller location identifier or an initiating switch locator (Fig. 27, 111, Fig. 30, 111 Network Switch), the caller location identifier identifying the geographic vicinity of the

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caller, and the initiating switch locator identifying the actual geographic vicinity of the switch through which the call is initially being routed (Fig. 27, Fig. 30, col. 10 lines 45-49, i.e., caller spatial coordinate, col. 38 lines 28-29, col. 40 lines 66-67 through col. 41 lines 1-3, i.e. ANI);

a database at said first directory assistance call center for relating the caller location identifier or initiating switch locator to the actual geographic vicinity of the caller at the time of the call or initiating switch, respectively (Fig. 27, 1134-1140, Fig. 30, 1134-1140, i.e. database server, NPA-NXX split file, phone database, and location table, col. 44 lines 30-61); and

a processor (Fig. 27, 1150, Fig. 30, 1150 Routing Processor) for retrieving the geographic vicinity of the caller or initiating switch, for determining a second directory assistance call center closer to the geographic vicinity of the caller location or initiating switch location, and for routing the call to that second call center (Fig. 27, Fig. 30, 1150, 1010, 1214 and 1216, i.e. routing processor, phone number latitude/longitude table, service area file, col. 42 lines 30-40).

Shaffer clearly disclose an apparatus that is **a known device** to provide the first call center handling all calls regardless of the location of the wireless communication device and re-routing the call to a second call center (Fig. 1c, Fig. 2, col. 15, line 60 through col. 16, line 8, and Fig. 27, Service Location #1 150a, Service Location #2 150b, col. 39 lines 1-4, and col. 52 lines 2-6), and routing the call closer to the geographic vicinity of the wireless communications device and to use the instantaneous

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location of a caller's mobile telephone as an input to rout the call to the call center corresponding to the location of the caller's telephone (See Shaffer – Abstract, Fig. 2, column 8 lines 49-65, and column 41, lines 1-64) which the claimed invention can be seen as an **improvement** in that the call is initially routed to a first call center based on the communications device identifier, the first directory assistance call center being designated to handle all calls having said communications device identifier regardless of the geographic location of the wireless communication device at the time of said call, and identifying a second call center at a differ geographic location closer to said vicinity of the wireless communications device at said first directory assistance call center at the time of said call; and re-routing the call to a second directory assistance call center if that second call center is closer. Lautenschlager contains **known technique** that the call is initially routed to a first call center based on the communications device identifier (See Lautenschlager – Fig. 1, Initiate Call; Transmit Subscriber ID As Part of Calling Signal), the first directory assistance call center being designated to handle all calls having said communications device identifier regardless of the geographic location of the wireless communication device at the time of said call (See Lautenschlager – Fig. 1, Use Subscriber ID to Retrieve Subscriber Location from ID/Location Database), identifying a second call center at a differ geographic location closer to said vicinity of the wireless communications device at said first directory assistance call center at the time of said call (See Lautenschlager – Fig. 1, Select Responsible Call Center Nearest to Subscriber Location), and re-routing the call to a second directory assistance call center if that second call center is closer (See Lautenschlager – Fig. 1, Route

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Subscriber's Call to Responsible Call Center, Abstract, column 2 lines 27-34, and lines 59-66), and Lautenschlager's known technique would have been recognized by one skill in the art as applicable to the known device of Shaffer and the results would have been predictable and resulted in the apparatus to initially route the call to a first call center based on the communications device identifier, the first directory assistance call center being designated to handle all calls having said communications device identifier regardless of the geographic location of the wireless communication device at the time of said call, and identifying a second call center at a different geographic location closer to said vicinity of the wireless communications device at said first directory assistance call center at the time of said call; and re-routing the call to a second directory assistance call center if that second call center is closer which results in an improved apparatus.

And thus adding the features as described above is to apply a known technique to a known device ready for improvement to yield predictable results (see KSR – MPEP 2143). Therefore, the claimed subject matter would have been obvious to a person having ordinary skill in the art at the time the invention was made.

Regarding claims 40-42, Schaffer teaches the method wherein: the at least one operator (Fig. 27, 1146 OPERATOR) comprises a human (Fig. 27, 38 lines 25-26, col. 39 lines 51-52, i.e., caller will be connected to an operator, and col. 8 lines 66-67 through col. 9 lines 1--3, i.e., operator is a "live operator"); the at least one operator comprises at least one processor (Fig. 27, 1150 ROUTING PROCESSOR, col. 39 lines

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57-63); and wherein said processor comprises at least one software application capable of VR (voice response) (Fig. 27, 1130 Interactive Voice Response Unit (IVRU), col. 38 lines 49-63, wherein IVRU such as AT&T Conversant System reads "processor and software capable of VR").

6. Claims 6 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaffer in view of Lautenschlager as applied to claims 5 and 23 above, and in view of Hurst (U.S. Pub. No. 2003/0087647 A1).

Regarding claims 6 and 24, Shaffer and Lautenschlager disclose everything claimed as applied above (see claims 5 and 23). However, Shaffer does not specifically disclose the additional WGS format, which can be used to convert the location information in the WGS84 format to latitude and longitude.

In the same field of endeavor, Hurst teaches a location calculation software translates the caller ID to a geographical coordinate such as WGS84 (See Hurst - paragraph [0037]). The advantage of Hurst is location data on a large number of mobile devices can be obtained in real time, and without additional burden on the network (See Hurst - paragraph [0141]).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide Shaffer and Lautenschlager with the converting the location information in WGS format to latitude and longitude.

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7. Claims 14-15, and 32-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaffer in view of Lautenschlager as applied to claims 3 and 21 above, and in view of Pogossiants et al. (U.S. Pub. 2001/0028649 A1 hereinafter “Pogossiants”).

Regarding claims 14-15 and 32-33, Schaffer and Lautenschlager disclose everything claimed as applied above (see claims 3 and 21). However, Schaffer and Lautenschlager might not specifically disclose their invention in detail about the call center can convert traditional voice data (PSTN – PCM format) to IP format (Voice-over-Internet Protocol (VoIP)) and the appropriate IP signaling protocols (i.e. H.323 and Session Initiation Protocol (SIP), and these protocols are well known in the art). Although Schaffer has described in the detail the computer-interface applications (Schaffer – col. 6 lines 23-67), and Computer Telephony Integration (CTI) (Schaffer – col. 38, section IX).

In the same field of endeavor, Pogossiants discloses a system comprises of formatting the content of the call to a VoIP protocol (Pogossiants – Fig. 3, paragraph [0052] lines 1-13) and supporting H.323 and SIP protocols (Pogossiants – paragraph [0015]). The advantage of Pogossiants’ system is the combining of a telephony network and a data-packet network (Pogossiants – paragraph [0026]).

Therefore, it would have been obvious to person of ordinary skill in the art at the time the invention was made to provide Schaffer and Lautenschlager with the detail of

VoIP protocol and the related signaling protocols H.323 and SIP, as taught by Pogossiants, in order to enhance Schaffer's computer-interface applications.

Response to Arguments

8. Applicant's arguments with respect to claims 1-42 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI N. NGUYEN whose telephone number is

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(571)270-3141. The examiner can normally be reached on Monday - Thursday 6:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad F. Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/K. N. N./
Examiner, Art Unit 2614

08/25/2010

/Rasha S AL-Aubaidi/
Primary Examiner, Art Unit 2614